FACSIMILE OFUS. DEPARTMENT OF COMMERCE FORM PTO-1449 Patent and Trademark Office (REV. 6-89) INFORMATION DISCLOSURE CITATION (Use Several Sheets if Necessary) U.S. PATENT DOCUMENTS EXAMINER DOCUMENT INITIAL NUMBER DATE NAME				— EMF-101	, Marko et.	09/804,800	PATER	SEL T. FOOD SOUTH CENE
FOREIGN PA	ATENT DOCUM	MENTS					H F	2 0
						TRANSL	ATEON	
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO	
	ОТН	ER DOCUME	NTS (Including Au	thor, Title, Date, Pe	rtinent Pages, Etc.)		
	Article		uctural Studies on Ca cium-Induced Helices					
	Article	Wang et al., Cal	modulin and Its Role	in the Second-Mess	enger System, Cur			
	Article	Regulation, Voh Klevit et al., <u>H-N</u>	ime 15, pp. 47-107, A NMR Studies of Calm	Academic Press 197 nodulin-Peptide Inte	9. ractions, Calcium	Binding Proteins,	Academic	
	Article	Press 1987. Asano et al., Eff	ects of Calmodulin A	ntagonists on Smoo	th Muscle Contrac	tion and Myosin		
	Article		, Calmodulin Antago Activation of Rabbit 5				hul in – Aa	
		Mechanistic Ove	rview, Howard Hugh	nes Medical Institute	B			
	Article	Kretsinger, R.H. Longman Group	, The Linker of Calm	odulin - to Helix or	Not to Helix, pp.	363-376, Cell Ca	lcium,	
	Article	Trewhella, J., Tl	ne Solution Structure	s of Calmodulin and	l its Complexes wi	th Synthetic Pepti	des Based o	<u>m</u>
	Article		zyme Binding Doma , Calmodulin, Cell G					_
	Article	Elsevier Science	Publishers Ltd UK 1	989.			•	
	Article		Imodulin Regulation Pharmacology, Vol. 1					
	Article	Sacks et al., The	Activity of Calmodu Site of Phosphate Inc	lin is Altered by Ph	osphorylation: Mo	dulation of Calm	odulin os	
	Article	Jarrett et al., Alt	ernate Binding of Act	in and Calmodulin	to Multiple Sites o	n Dystrophin, Th	e Journal of	F
	Article	Biological Chen	nistry, Vol. 270, No.	10, pp. 5578-5586,	March 1995.	nily Proceedin	os of Natio	nal l
		Houdusse et al., Target Sequence Recognition by the Calmodulin Superfamily, Proceedings of National Academy of Science, Vol. 92, pp. 10644-10647, November 1995.						
	Article		e Calmodulin-binding al of Biochemistry, N			ge) Nitric Oxide !	Synthase,	
	Article	Barnes et al., PE	ST Sequences in Cal p. 17-27, Kluwer Acc	modulin-Binding Pi	roteins, Molecular	and Cellular Bio	chemistry,	
EXAMINER				DATE CON	SIDERED			

FACSIMILE OFUS. DEPARTMENT OF COMMERCE				AT			
FORM PTO-1449Patent and Trademark Office (REV. 6-89)			ATTORNEY'S DOCKET NUMBER SERIAL NUMBER EMF-101 09/80/4 800				
8			EMF-101 09/804,800				
		FEB 2	5 2002 22		ov, Marko et	al	
INFORMATION DI	ISCLOSURE CITATION		3		r, mako ci	. aı.	
(Use Several Sheets i	(f Necessary)	Elle	and the	FILING DA		GROUP ART UNIT	
(**************************************	,	PAL	EMARIT	3/14/0	1	3736	
U.S. PATEN	T DOCUMENT						
EXAMINER	DOCUMENT					FILING DATE IF	
INITIAL	NUMBER	DATE	NAME	CLASS	SUBCLASS	APPROPRIATE	
						-	
				<u> </u>]	<u>n</u>	
FOREIGN P	ATENT DOCUM	MENTS				Ž Š i	
						6 20 (
	DOCUMENT					TRANSLATION	
	NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES ENTER 102	
					-	1 82	
	1	I	l	i	1 1	表	
	OTH		ENTS (Including Aut	44.5. **			
	Article	Tashima et al., (Overexpression of Ca2	* / Calmodulin-Der	endent Protein Kin	nase II Inhibits Neurite	
· · · · · · · · · · · · · · · · · · ·	Article	Outgrowth of PC	C12 Cells; Journal of	Meurochemistry Vo	lectric- and Magne	tic-Field-Induced Alteration of	
	Alucie	Calcium-Ion Re	lease From In Vitro B	Brain Tissue, Biock	ectromagnetics 12,	pp. 173-182, Wiley-Liss 1991.	
	Article	Liburdy, RP.,	Calcium Signaling in	Lymphocytes and F	LF Fields, FEBS I	Letters, Vol. 301:1, pp. 53-59,	
	Article		propean Biochemical			n Light Chain Kinase, The	
	Aude	Journal of Biolo	gical Chemistry Vol.	256 No.14, pp. 750	01-7509, 1981.		
	Article			Light Chain Kinase	, Methods in Enzy	mology, Vol. 99, pp. 279-289,	
	Article	Academic Press,		es the [Ca²+]; Sensit	ivity of Myosin Li	ght-Chain Kinase in Arterial	
		Smooth Muscle:	Comparison of aequ	orin and fura 2 [Ca	$[t^{2+}]_i$ estimates, The	FASEB Journal, Vol. 5, pp.	
	A 41-1-	2593-2599, Aug		Location of Basic	Residues in Pentid	e Substrates for Smooth Muscle	
	Article	Myosin Light C	hain Kinase, The Jour	mal of Biological C	hemistry, Vol. 260	No. 6, pp. 3355-3359, The	
		American Socie	ty of Biological Chen	nists, Inc., March 19	985.		
	Article					ournal of Biological Chemistry, Biological Chemists, Inc.	
	Article					nd Cell Motility 15, pp. 587-	
		594, Chapman	& Hall, 1994.				
	Article	Stepkowski, D.,	The Role of the Skel 6-11, Federation of F	etal Muscle Myosin Juropean Biochemi	Light Chams N-te cal Societies 1995.	erminal Fragments, FEBS	
	Article	Hartshorne, D,	Calmodulin: An Intro	duction to Biochem	rical Aspects, Calm	nodulin Antagonists and	
		Cellular Physio	logy, pp. 3-12, Acade	mic Press, 1985.		F	
Article Sisken, B.F., The Role of Calcium Io				ns in Electrically-S	imulated Neurite I	cormation in virro, pp. 417-	
	Article	Cox et al., Catio				m and Calcium Binding	
	<u> </u>	Proteins, pp. 14	1-162, Springer-Verla	ag Berlin Heidelber	g 1988.		
EXAMINE	₹'	•		DATE CON	GIDEDED		
				DAILCON	SIDERLD		

FORM PTO-1449Pet (REV. 6-89) INFORMATION D: (Use Several Sheets)		PATTALIA	1 P LL SC 25 ZONG 25 Z	ATTORNEY EMF-10 APPLICANT Markov Filing dat 3/14/01	v, Marko et.	09/804,800)
EXAMINER INITIAL	T DOCUMENT DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING I APPROP	
FOREIGN P	ATENT DOCU	MENTS	<u> </u>	 	T		
	DOCUMENT			GT 4.86	graper Ass	TRANSL	,
	NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	OTI- Article	Carafoli et al., T	NTS (Including Au The Calcium Pump of to Fragments, Calci	the Plasma Membr	ene: Recent Studie	s on the Purified I	Enzyme and Academic
	Article	Press 1987. Yamaguchi, M.	, A Novel Ca ²⁺ -bindin	g Protein Regucalc	in and Calcium Inl	nibition: Regulato	
	Article	Kimura et al., Ir	tion, Calcium Inhibit hibitory and Excitato Role of nACh-RAMIO	ry Role of Ca2+ at 1	leuromuscular Syr	napse: The Disco	very, 1992/
	Article	Weinstein et al.	, Molecular Biophysic s, Theoretical Bioche	s of Specificity and	Function in Enzy	nes, Receptors an	d Calcium
	Article	Hiraoki et al., S Pharmacology,	tructure and Function Vol. 10 (Suppl. 1), pp.	of Calcium-Bindin S14-S31, Raven P	g <u>Proteins,</u> Journa ress, 1987.	of Cardiovascula	
	Article	Adelstein et al., Academic Press	Myosin Structure and	Function, Biochen	nistry of Smooth M	fuscle Contraction	1, pp. 3-19,
	Article	Academic Press	Myosin Regulation an 1996.				
	Article	Press 1996.	Iyosin Light Chains, I				
	Article	Combined, AC	t al., <u>Calcium Binding</u> DC Magnetic Fields,	Bioelectromagnetic	s 13, pp. 147-162	Wiley-Lisa 1992	! <u> </u>
	Article	Academic Press					
	Article	Academic Press	osin Light Chain Kina 1996.				
	Article	Blackman et al Research Vol. 9	, <u>Effects of ELF Field</u> 22, pp. 510-520, 1982	s on Calcium-Ion E	fflux from Brain 7	Cissue in Vitro ¹² ,	Radiation C
EXAMINE	R			DATE CON	SIDERED	* X	3 3 6

TER 1600/2900

NO

Sheet	4	of	12

FACSIMILE OF U.S. DEPARTMENT OF COMMERCE FORM PTO-1449Patent and Trademark Office ATTORNEY'S DOCKET NUMBER SERIAL NUMBER (REV. 6-89) EMF-101 09/804,800 APPLICANT Markov, Marko et. al. INFORMATION DISCLOSURE CITATION FILING DATE GROUP ART UNIT (Use Several Sheets if Necessary) 3/14/01 3736 U.S. PATENT DOCUMENTS FILING DATE IF DOCUMENT **EXAMINER** CLASS **SUBCLASS** APPROPRIATE NUMBER DATE NAME INITIAL FOREIGN PATENT DOCUMENTS TRANSLATION DOCUMENT DATE COUNTRY **CLASS** SUBCLASS YES NUMBER OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Louboutin et al., Comparison of Contractile Properties Between Developing and Regenerating Soleus Article Muscle: Influence of External Calcium Concentration....., Muscle & Nerve, pp. 1292-1299, Nov. 1995. Balnave et al., Intracellular Calcium and Force in Single Mouse Muscle Fibres Following Repeated Article Contractions with Stretch, Journal of Physiology 488.1, pp. 25-36, 1995. Conley et al., From Muscle Properties to Human Performance, Using Magnetic Resonance, The Journal of Article Gerontology Series A, Vol. 50A, pp. 35-40, 1995. Barclay et al., Fatigue and Heat Production in Repeated Contractions of Mouse Skeletal Muscle, Journal Article of Physiology 488.3, pp. 741-752, 1995. Haghighi et al., Origin of Muscle Action Potentials Evoked by Transcranial Magnetic Stimulation in Cats, Article Neurological Research, Vol. 17, pp. 469-473, December 1995. Uchida, M.K., Ca Reversal and Ca Relaxation-Ca Inhibition of Ca-independent Contraction of Smooth Article Muscle, Calcium Inhibition, pp. 167-200, Japan Sci. Soc. Press 1992. dos Remedios et al., Actin and the Actomyosin Interface: A Review, Biochimica et Biophysica Acta 1228, Article pp. 99-124, Elsevier Science 1995. Ridgway et al., Determination of Resting Free Calcium in Barnacle Muscle Using Modified Aequorins, Article Buffered Calcium Injections,, Journal of Muscle Research and Cell Motility 16, pp. 499-507, 1995. Sparrow et al., Calmodulin is Essential for Smooth Muscle Contraction, FEBS Letters Vol. 125 No.2, Article March 1981. Hashitani et al., Electrical and Mechanical Responses Produced by Nerve Stimulation in Detrusor Smooth Article Muscle of the Guinea-pig, European Journal of Pharmacology 284, pp. 177-183, Elsevier Science 1995. Oda et al., Effects of Actin and Calcium ion on Chymotryptic Digestion of Skeletal Myosin and Their Article Implications to the Function of Light Chains, Biochemistry Vol. 19 No. 24, pp. 5614-5618, 1980. Barany et al., Myosin Light Chain Phosphorylation during Contraction of Chicken Fast and Slow Skelesal Article Muscles, Archives of Biochemistry and Biophysics, Vol. 225, No. 2, pp. 692-703, September 1983. Maciver, S. K., Myosin II Function in Non-Muscle Cells, BioEssays Vol. 18 No. 3, pp. 179-182, ICSU, Article Press 1996. Davis et al., Indirect Coupling of Phosphate Release to de novo Tension Generation During Muscles Article Contraction, Proceeding of. National Academy of. Science Vol. 92, pp. 10482-10486, November 1 Nordin et al., Effect of Noxious Stimulation on Sympathetic Vasoconstrictor Outflow to Human Muscles, Article

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP > 609; Draw Line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Journal of Physiology 489.3 pp. 885-894, 1995.

FACSIMILE OFUS. DEPARTMENT OF COMMERCE FORM PTO-1449Patent and Trademark Office (REV. 6-89) INFORMATION DISCLOSURE CITATION (Use Several Shoets if Necessary) U.S. PATENT DOCUMENTS				— EMF-101	, Marko et.	09/804,800	CH CENTER
EXAMINER INITIAL	DOCUMENT NUMBER	DATE NAME CLASS SUBCLASS APPROPRIATE					
FOREIGN P	ATENT DOCU	MENTS		·			
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSI YES	ATION NO
	ОТН	IER DOCUME	NTS (Including Au	thor, Title, Date, Pe	rtinent Pages, Etc.)	
	Article	Experimental Co	racellular Calcium, M erebral Vasospasm, N	eurosurgery Vol. 3	8, No. 4, April 199	6.	
	Article	Research 46, pp	exygen Effect in the R . 326-332, 1995.				
	Article	Sedentary and E	Relationships Between exercised Rats, Ameri	can Journal of Phys	iology 269:38, pp.	R1154-R1162,	1995.
	Article	Cells, American	Multiple Growth Fact Journal of Physiolog	y 269, pp. H1641-I	H1647, 1995.		
	Article	American Journ	iophosphorylation Inc al of Physiology 269,	pp. C1160-C1166	, American Physio	logical Society 19	95.
	Article	pp. G-378-G38	²⁺ Currents in Human 5, American Physiolo	gical Society 1995.			
	Article	Journal of Phys	tulation of Smooth M cology 269, pp. G370	-G377, American P	hysiological Socie	ty 1995.	
	Article	Biochemistry, V	Comparative Studies ol. 34, No. 36, pp. 1	1435-11444, Ameri	can Chemical Soc	iety 1995.	
	Article	Biochemistry, \	Functional Signification 1	1445-11452, Ameri	can Chemical Soc	iety 1995.	
	Article	Journal of Biolo	Effects of CGS 9343 ogical Chemistry, Vol	. 270, No. 43, pp. 2	5613-25618, 199	5.	
	Article	Huxley et al., P 538, October 22	roposed Mechanism o 2, 1971.	of Force Generation	in Striated Muscle	e, Nature, Vol. 23	
	Article	Contains a Pseu 2548. February	e Calmodulin Bindin Idosubstrate Sequence 1987.	e, The Journal of Bi	ological Chemistr	y, Vol. 262, No. (6, pp. 2542-3
	Article	Szebenyl et al., Proteins in Hea	Some Thoughts Rega th and Disease, pp. 3	23-332, Academic	Press 1987.		
	Article	Bowman et al	Pre-Steady-State Kin Calmodulin, Journal	etics of the Activati	on of Rabbit Skele	tal Muscle Myos o. 8, pp. 5346-53	n Light Chain/ 54, Mar. 1992.
EXAMINE	R			DATE CON	SIDERED		54, Mar. 1992: 199

FACSIMILE OF U.S. DEPARTMENT OF COMMERCE FORM PTO-1449 Patent and Trademark Office ATTORNEY'S DOCKET NUMBER SERIAL NUMBER EMF-101 (REV. 6-89) 09/804,800 APPLICANT Markov, Marko et. al. INFORMATION DISCLOSURE CITATION FILING DATE GROUP ART UNIT 3/14/01 (Use Several Sheets if Necessary) 3736 U.S. PATENT DOCUMENTS FILING DATE IF EXAMINER DOCUMENT SUBCLASS APPROPRIATE NAME CLASS DATE INITIAL NUMBER FOREIGN PATENT DOCUMENTS TRANSLATION DOCUMENT SUBCLASS YES NO CLASS COUNTRY NUMBER DATE OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Persechin et al, Different Mechanisms for Ca2+ Dissociation from Complexes of Calmodulin with Nitric Article Oxide Synthase or Myosin Light Chain Kinase, The Journal of Biological Chemistry, Vol. 271:1, pp. 62-67, The American Society for Biochemistry and Molecular Biology, Inc., January 1996. Tokumitsu et al., Requirements for Calcium and Calmodulin in the Calmodulin Kinase Activation Article Cascade, The Journal of Biological Chemistry Vol. 271 No.10, pp. 5617-5622, The American Society for Biochemistry and Molecular Biology, Inc., March 1996. Hama et al., Calcium/Calmodulin-dependent Protein Kinase II Downregulates Both Calcineurin and Article Protein Kinase C-mediated Pathways...., Journal of Experimental Medicine Volume 181, pp. 1217-1222, March 1995. Molloy et al., Movement and Force Produced by a Single Myosin Head, Nature, Vol., 378, pp. 209-211, Article November 1995. Babu et al., Crystal Structure of Calmodulin, Calcium-Binding Proteins in Health and Disease, pp. 305-Article 311, Academic Press 1987. Adelstein et al., Regulation of Myosin Light Chain Kinase by Reversible Phosphorylation and Calcium-Article Calmodulin, Annals New York Academy of Sciences, pp. 142-149, 1980. Sellers et al., Effect of Multiple Phosphorylations on Movement of Smooth Muscle and Cytoplasmic Article Myosin, Calcium Protein Signaling, pp. 299-304, Plenum Press 1988. Kennedy et al., Calcium/Calmodulin-Dependent Protein Kinases, Calcium and Cell Function, Vol. VII, pp. Article 61-107, Academic Press, 1987. Cohen et al., Calcium Control of Muscle Phosphorylase Kinase Through the Combined Action of Article Calmodulin and Troponin, Annals New York Academy of Sciences, pp. 151-161, 1980. Melikyan et al., GPI-anchored Influenza Hemagglutinin Induces Hemifusion to Both Red Blood Cell and Article Planar Bilayer Membranes, Life Sciences 1200, Issue 47, November 1995. Hofmann, F., Calcium-Dependent Protein Kinases and Calmodulin Antagonists, Calmodulin Antagonists Article and Cellular Physiology, pp. 287-298, Academic Press 1985. Niki et al., Presence and Possible Involvement of Ca/Calmodulin-Dependent Protein Kinases in Insulin Article Release from the Rat Pancreatic β Cell, Biochemical and Biophysical Research Communications, Vol. 191, No. 1, pp. 255-261, February 1993. DATE CONSIDERED BILLIAN TO THE CONSIDERED BI **EXAMINER**

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP > 609; Draw Lingting

conformance and not considered. Include copy of this form with next communication to the patent owner.

	ACSIMILE OFUS. DEPARTMENT OF COMMERCE FORM PTO-1449 Patent and Trademark Office REV. 6-89) NFORMATION DISCLOSURE CITATION Use Several Sheets if Necessary)				OOCKET NUMBER	09/804,800	
INFORMATION DE	SCLOSURE CITATION		5 2002 20	Markov,	Marko et. a	il .	
(Use Several Sheets if	(Use Several Sheets if Necessary)					GROUP ART UNIT	
U.S. PATEN	T DOCUMENT	S					
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING D APPROP	
FOREIGN PA	ATENT DOCU	MENTS	T	T	i	·	
	DOGER (EDE					TRANSL	ATION
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	OTI	IER DOCUME	ENTS (Including Au	thor, Title, Date, Pe	rtinent Pages, Etc.	.)	
	Article		ulation of Ca ²⁺ /Calmo				tion
	Article	/Dephosphorylation, Calcium-Binding Proteins, pp. 180-184, Academic Press 1987. Blumenthal et al., Activation of Skeletal Muscle Myosin Light Chain Kinase by Calcium(2+) and Calmodulin, Biochemistry, Vol. 19, pp. 5608-5614, 1980.					
	Article		, Calcium and Calmo			5-362, Longman G	roup 1992.
	Article		im-Calmodulin Modi 6, pp. 1348-1354, No		ory Cyclic Nucleo	tide-Gated Cation	Channel,
	Article	Hatakeyama et	al., Vascular Aldoster ooth Muscle Cells, Jo	one. Biosynthesis a		iotensin II-induced	Hypertrophy
	Article	de Lanerolle, P.	, <u>Regulation of Embr</u> C, Calcium Protein Si	yonic Smooth Musc	le Myosin by Myo		inase and by
	Article	Pearson et al., M	Tyosin Light Chain K uropean Biochemical	inase Binding to Pla	stic, FEBS Letter		pp. 327-331,
	Article	Dabrowska et a	l., Modulator Protein mistry, pp. 253-258,	as a Component of	he Myosin Light	Chain Kinase from	Chicken
	Article	Kennelly et al.,	Organization of Myo	sin Light Chain Kin	ase from Rabbit S	keletal Muscle, pp	. 494-504.
	Article	Light Chain Kir	ope-Filtered 2D NMI nase Fragment Bound 2433-2440, 1992.	R of a Proetin-Peptio to Calmodulin, Jou	le Complex: Study mal of the Americ	y of a Skeletal Mucan Chemical Soc	scle Myoson iety, Vol.
	Article	Greco, Jr. et al.,	New Experimental T				etric Fields
	Article	Kolodney et al.,	Contraction Due to I latory Light Chain, P	dimetala Dimet	ion in Amonintad	with Incressed Pho	sphorylation ol. 92, pp.
						eojon.	<u> </u>
EXAMINER				DATE CON	SIDEREIN E	Tally A	N N N N N N N N N N N N N N N N N N N
EXAMINE			er or not citation is in	conformance with	MPEP ∋ 609; Dra	w Linear vien cit	ation if not in

conformance and not considered. Include copy of this form with next communication to the patent owner.

FACSIMILE OFU.S. DEPARTMENT OF COMMERCE FORM PTO-1449 Patent and Trademark Office (REV. 6-89)				ATTORNEY'S - EMF-101	DOCKET NUMBER	SERIAL NUMBER 09/804,800			
INTO PARATION D	ISCLOSURE CITATION	FEB 2	5 2007 20	APPLICANT Markov, Marko et. al.					
	FORM PTO-1449 Patent and Trademark Office (REV. 6-19) INFORMATION DISCLOSURE CITATION (Use Several Sheets if Necessary)				FILING DATE GROUP ART UNIT 3/14/01 3736				
U.S. PATEN	T DOCUMENT	S							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING I APPROF			
FOREIGN P	ATENT DOCU	MENTS			,				
						TRANSLATION			
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO		
	OTH	ER DOCUME	NTS (Including Aut	thor, Title, Date, Pe	rtinent Pages, Etc.)			
	Article		ffects of Myosin Light thetic Neurons, Neuro						
	Article	Dabrowska et al	., A Ca ²⁺ - and Modul I Biophysical Researc	ator-Dependent My	osin Light Chain I	(inase from Non-)	Muscle Cells,		
	Article	Dabrowska et al., Composition of the Myosin Light Chain Kinase from Chicken Gizzard, Biochemical And Biophysical Research Communications, Vol. 78, No. 4, pp. 1263-1272, 1977.							
	Article		, Myosin Light Chain				Vol. II, pp.		
	Article		tial Requirements for hain Kinase, Journal o						
	Article	Ashizawa et al.,	Dephosphorylation of earch Communication	f a 30-KDA Protein	of Fowl Spermato				
***************************************	Article		Human Myosin Ligh Localization to 3qcen						
	Article	Fukunaga et al.,	Increased Phosphyor estrates in the Induction	ylation of Ca2+/Calr	nodulin-dependent	Protein Kinase I	l and Its		
	Article		6119-6124, March 1 Differential Targeting		C and CaM Kinase	Il Signalings to	Vimentin,		
		Journal of Cell I	Biology, Vol. 131, No ructure of the Pseudo	o. 4, pp. 1055-1066,	Rockefeller Univ	ersity Press 1995.	<u> </u>		
	Article	Chain Kinase, B	liochimica et Biophys	ica Acta 1292, pp. 1	106-112, Elsevier	Science B.V. 199	6.		
	Article		l., <u>Myosin II Filamen</u> , Journal of Cell B						
	Article	Ho et al., Both t Required for Bir	he Amino and Carbo ading to Myosin Heav	cyl Termini of Dicty	ostelium Myosin	Essential Light Cl	nain are		
	Article	27977-27981, h Adelstein et al.,	Regulation and Kinet	ics of the Actin-My	osin-ATP Interacti	ion 12, Ann. Rev.	Biochem, Vol.		
		49, pp. 921-955	, 1760.				Z/A		
EXAMINE	EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP > 609; Drawline through citation in onformance and not considered. Include copy of this form with next communication to the patent owner.						en and		
EXAMINE conformance ar	R: Initial if citation ad not considered. In	considered, whethe	er or not citation is in form with next common	conformance with Marication to the pate	MPEP 3 609; Drag	Line through cit	ation ind m		
							10		

FACSIMILE OFU.S. DEPARTMENT OF COMMERCE FORM PTO-1449Patent and Trademant Office (REV. 6-89)			ATTORNEY'S I EMF-101 APPLICANT	OOCKET NUMBER	serial number 09/804,800		
INFORMATION DI	ISCLOSURE CITATION	FEB 2	5 2002 C20	Markov, FILING DATE 3/14/01	Marko et. a	GROUP ART UNIT	
U.S. PATEN	T DOCUMENT						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING D	1
FOREIGN P	ATENT DOCU	MENTS					
TORESON	THE TOUGH					TRANSL	ATION
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	ОТН		NTS (Including Aut				
	Article	Blackman et al.,	Effects of ELF (1-12 Tissue In Vitro, Bios	0 Hz) and Modulate electromagnetics 6.	ed (50 Hz) RF Fie pp. 1-11, Alan R.	lds on the Efflux of Liss, Inc. 1985.	f Calcium
	Article	Blackman et al., Brain Tissue In	A Role for the Magn Vitro, Bioelectromagn	etic Field in the Rac netics 6, pp. 327-33	<u>listion-Induced Ef</u> 7, Alan R. Liss, Ir	flux of Calcium I nc. 1985	
	Article		Dutta et al., Radiofrequency Radiation-Induced Calcium Ion Efflux Enhancement from Human and Other Neuroblastoma Cells in Culture, Bioelectromagnetics 10, pp. 197-202, Alan R. Liss, Inc. 1989.				
	Article	Yost et al., <u>Time</u> Transduction in Biochemical So	b-Varying and Static In the Lymphocyte, FEE cieties, January 1992.	Magnetic Fields Act 3S Letters, Vol. 296	in Combination to 5, No. 2, pp. 117-1	o Alter Calcium S 22, Federation of	ignal European
	Article		rowave Radiation-Inc tromagnetics 5, pp. 7			an Neuroblastoma	Cells in
	Article	Hahn et al., Patt 359, pp. 736-73	erns of Elevated Free 8, October 1992.	Calcium and Calm	odulin Activation		
	Article	Forsen et al., Str. Biophysical Stu	ucture-Function Rela dies of Bovine Intesti	tions in EF-Hand C nal Calcium Protein	a ²⁺ -Binding Protes	ins: Genetic Engin g Proteins, Acad. 1	eering and Press 1987.
	Article	Blackman et al.	The Influence of Ter lease From In Vitro B	nperature During E	lectric- and Magn	etic-Field-Induced	Alteration of
	Article		perativity in Calcium 05-214, Plenum Press		um Dependent Re	actions, Calcium	Protein
	Article	Yagietal., <u>Inter</u>	raction Between Calm	odulin and Target l	Proteins, pp. 147-	154	
	Article		nodulin, Ann. Rev. Bi				
	Article		tein Engineering and 15, Kluwer Academic		almodulin, Moleca	ılar and Cellular F	Biochemistry
	Article	Taketa et al., Hi	igh Molecular Weight in Kinase VI from Bo ver Academic Publish	Calmodulin-bindir		~ 11. 1. ~ € 1	1 40/150
EXAMINE	R: Initial if citation	considered, wheth	er or not citation is in	DATE CON	SIDERED MPEP 3 609; Drav	w Line that die	ation if not in
conformance ar	nd not considered. In	clude copy of this	form with next comm	unication to the pate	ent owner.	S	

FORM PTO-1449Pat (REV. 6-89) INFORMATION DI (Use Several Sheets i	DEPARTMENT OF COM cont and Trademark Office ISCLOSURE CITATION (Necessary) T DOCUMENT NUMBER	PATERIA & PRADEN	ARKORIUS NAME	EMF-101 - applicant	Marko et. al.	FILING E	i i
<u></u>							
FOREIGN P	ATENT DOCU	MENTS					
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL YES	ATION NO
	OTH	IER DOCUME	NTS (Including Aut	hor, Title, Date, Pe	rtinent Pages, Etc.)		
	Article	Cheung, W.Y.,	Calmodulin Plays a Pi				0.4,
	Article	January 1980. Cox, J.A., <u>Intera</u>	ctive Properties of Ca	lmodulin, Biochem	ical. Journal, Vol.	249, pp. 621-629	, 1988.
	Article	Braum et al., A l	Von-selective Cation C n Kinase in Human B	Current Activated v	ia the Multifunction	nal Ca ²⁺ - Calmoo	<u>lulin-</u>
	Article		ophysical Studies of C				
	Article	Blumenthal et al	., Preparation and Pronain Kinase, Methods				
	Article	Babu et al., <u>Stru</u> pp. 191-204, 19	cture of Calmodulin I	Refined at 2.2 Å Re	solution, Journal of	f Molecular Biolo	ogy, Vol. 204,
	Article	Hidaka, H., Bio	pharmacological Asse onamide, Proc. West.				Antagonist
	Article	Hidaka et al., A	ctivity-Structure Relat , The American Socie	ionship of Calmod	ulin Antagonists, M		cology, Vol.
	Article	Klevit et al., <u>Inte</u> Kinase: Major S	raction of Calmoduling pectral Changes in Bell 24, No. 27, pp. 815	n and a Calmodulir oth Occur as the Re	-Binding Peptide fi sult of Complex Fo	rmation, Calmod	
	Article		Calmodulin-Bin				Chemical
	Article	Naim et al., Cal	modulin and Myosin 29, pp. 89-97, 1979.	Light-Chain Kinase	of Rabbit Fast Ske	eletal Muscle, Bio	l l
	Article	Lukas et al., An Comparative Bi Proteins, pp. 53:	Interdisciplinary App ochemistry, Site-Spec 3-543, Academic Pres	ific Mutagenesis, a s 1987.	nd Protein Engineer	ring Calcium Bit	ading &
	Article	Kretsinger et al.	Crystal Structure of Publishing, New Yor	Calmodulin, Journa	al of Inorganic Bioc	chemistry 28, pp.	289,002,
EXAMINER	8			DATE CON	SIDERED	THE PERIOD	289-902. Pr
			er or not citation is in form with next commi				

RECEIVEL

FACSIMILE OFUS. DEPARTMENT OF COMMERCE ATTORNEY'S DOCKET NUMBER SERIAL NUMBER FORM PTO-1449 Patent and Trademark Office EMF-101 09/804,800 (REV. 6-89) APPLICANT Markov, Marko et. al. INFORMATION DISCLOSURE CITATION FILING DATE GROUP ART UNIT 3/14/01 3736 (Use Several Sheets if Necessary) U.S. PATENT DOCUMENTS **EXAMINER** DOCUMENT FILING DATE IF **SUBCLASS** APPROPRIATE INITIAL NUMBER DATE NAME **CLASS** FOREIGN PATENT DOCUMENTS TRANSLATION DOCUMENT NUMBER DATE COUNTRY CLASS **SUBCLASS** YES NO OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Article Kidaka et al., Biopharmacological Assessment of Calmodulin Function: Utility of Calmodulin Antagonists, Calmodulin & Intracellular Ca++ Receptors, pp. 19-33, Plenum Publishing Corp. 1982. Article Suematsu et al., Actions of Calmodulin and Cyclic Nucleotides in Vascular Smooth Muscles: Assessments from Drug Actions, Calmodulin Antagonists and Cellular Physiology, pp. 301-320, Academic Press 1985. Ikura et al., Solution Structure of Calmodulin and its Complex with a Myosin Light Chain Kinase Article Fragment, Cell Calcium Vol. 13, pp. 391-400, Longman Group UK Ltd 1992. Hartshorne, D.J., Calmodulin: An Introduction to Biochemical Aspects, Calmodulin Antagonists and Article Cellular Physiology, pp. 3-11, Academic Press 1985. Demaille, J.G., Calmodulin and Calcium-Binding Proteins: Evolutionary Diversification of Structure and Article Function, Calcium and Cell Function, Vol. II, pp. 111-143, Academic Press 1982. Yazawa et al., Regulatory and Target-Binding Domains of Calmodulin, Calcium Binding Proteins, pp. Article 446-448, Academic Press 1987. Kuhn et al., Stimulation of Synthesis of Neurotransmitters by Calmodulin-Dependent Phosphorylation, Article Calcium and Cell Function, Vol. III, pp. 311-323, Academic Press, 1982. Article Arber, S.L., Microwave Enhancement of Membrane Conductance: Calmodulin Hypothesis, Physiological Chemistry and Physics and Medical N M R, Vol. 17, pp. 227-233, 1985. Article Ikura et al., Solution Structure of a Calmodulin-Target Peptide Complex by Multidimensional NMR, Science, Vol. 256, pp. 632-638, May 1992. Maune et al., Ca2+ Binding and Conformational Change in Two Series of Point Mutations to the Individual Article Ca²⁺-binding Sites of Calmodulin, Journal of Biological Chemistry 267.8, pp. 5286-5295, March 1992. Hidaka et al., Molecular Pharmacology of Calmodulin Pathways in the Cell Functions, Cell Calcium, Vol. Article 13, pp. 465-472, Longman Group UK Ltd. 1992. Sharma, R.K., Signal Transduction: Regulation of cAMP Concentration in Cardiac Muscle by Article Calmodulin-dependent Cyclic Nucleotide Phosphodiesterase, Molecular and Cellular Biochemistry 149/150, pp. 241-247, Kluwer Academic Publishers 1995. Article Martin et al., Spectroscopic Characterization of a High-Affinity Calmodulin - Target Peptide Tybrid Molecule, Biochemistry 35, pp. 3508-3517, American Chemical Society 1996. Latigge et al., Analysis of the Ion Binding Sites of Calmodulin by Electrospray Ionization Article Spectrometry, Biochemistry 34, pp. 13825-13832, American Chemical Society 1995 **EXAMINER** DATE CONSIDERED

م سر ۽ کي الياش

					Sneet		<u> </u>
	DEPARTMENT OF COM	0	IPE	EMF-101		s serial number 09/804,800	
INFORMATION DI	SCLOSURE CITATION		2 5 2002 S		, Marko et.		TECH .
(Use Several Sheets ij	f Necessary)	CAT & TRA	IDEMARK OFFIS	3/14/01		GROUP ART UNIT	FECH CENTER 1600/290
U.S. PATEN	T DOCUMENT						R
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DA	ATE IF 0/2900
FOREIGN P.	ATENT DOCUI	MENTS			1	1	
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLA YES	NO NO
	NOMBER	DATE	COUNTRY	CLASS	SOBCLASS	1125	
l	ı . OT H	I ER DOCUME	I NTS (Including Aut	। hor, Title, Date, Pe	ı rtinent Pages, Etc.)	
	Article		olecular Analysis of C				se, pp. 135-
	Article		say of Cyclic AMP-D	ependent Protein K	inases, , Methods i	n Enzymology, pp.	287-290,
	Article	Wehling et al., R	Rapid Effects on Free ar Localizaation of Ca	Intracellular Calciu Ilcium Elevations b	m in Vascular Sm y Single Cell Imag	ooth Muscle and Er	ndothelial p. 580
	Article		oid Effects of Aldoster				
					······································		
		· · · · · · · · · · · · · · · · · · ·					
•				······································	W		
			_				7
EXAMINER			er or not citation is in-	DATE CONS	SIDERED	VDLOGY CENTE	MAR 1 2
EXAMINER conformance and	R: Initial if citation d not considered. Inc	considered, whether	er or not citation is in-	conformance with M nication to the pate	MPEP 3 609; Drav nt owner.	V Line through tat	ion Prior in F